

What is claimed is:

1. A ball point pen comprising:

a tip body including a front end edge portion, a ball  
5 seat provided inward at a front end, and a ball rotatably held  
in said front end edge portion and said ball seat;

an ink tube formed to provide said tip body at a front  
end thereof;

ink reserved in said ink tube;

10 an ink follower disposed at a rear end of said ink  
and advancing with consumption of said ink, and

an elastic member urging said ball forward to bring  
said ball into contact with an inner surface of said front  
end edge portion of said tip body,

15 wherein the value of outflow of ink per writing distance  
of 100 m, until a measurement time just before outflow of 80 %  
of the amount of charged ink from the start of writing in the  
case where an outflow of ink is measured at intervals of a  
writing distance of 100 m, is in a range between a value smaller  
20 by 20 mg than the outflow of ink in the writing distance range  
of from 0 m to 100 m and a value larger by 20 mg than the outflow  
of ink in the writing distance range of from 0 m to 100 m.

2. A ball point pen according to Claim 1, wherein the  
25 decrement of the head of ink per writing distance of 100 m,  
until a measurement time just before outflow of 80 % of the

amount of charged ink from the start of writing in the case where an outflow of ink is measured at intervals of a writing distance of 100 m, is in a range of from 3 mm to 12 mm.

5     3.       A ball point pen according to Claim 2, wherein the increment of longitudinal movable length of said ball at a front end of said tip body per writing distance of 100 m, until a measurement time just before outflow of 80 % of the amount of charged ink from the start of writing in the case where  
10    an outflow of ink is measured at intervals of a writing distance of 100 m, is in a range of from 0.1  $\mu$ m to 1.5  $\mu$ m.

4.       A ball point pen according to Claim 1, wherein the viscosity of said ink at 20°C  
15    is in a range of from 1 mPa·s to 50 mPa·s.

5.       A ball point pen according to Claim 1,  
          wherein the viscosity of said ink measured at 20°C at a rotational speed of 100 rpm by an E-type rotational viscometer  
20    is in a range of from 3 mPa·s to 160 mPa·s, and  
          the shear-thinning index of said ink is in a range of from 0.80 to 0.99.

6.       A ball point pen according to Claim 1,  
25        wherein the tip body is made of a right circular cylindrical small tube of a metal, and

plural inward protrusions are formed at regular circumferential intervals on an inner surface near a front end of the tip body by deformation due to inward pressing.

- 5    7.        A ball point pen according to Claim 1,  
             wherein the tip body has a ball holding hole and a  
             ball seat formed at a front end portion by cutting a metal  
             material.

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